

Specification

- 1). Throughout the text, correct all informalities, grammatical errors and inconsistencies, as specified in the Office Action.
- 2). Page 6, between paragraphs 4 and 5, insert the following new paragraph:
 - The valves 18, 82, 84, 86, 88 must be operated by the mechanisms that provide the necessary timing of physical connection among various chambers during engine operation.
- 3). Page 7, last paragraph (extends to page 8), line 7, end of sentence, insert the following new sentence:
 - It would be advantages to have ramp surface containing power orifice 16 controlled by power valve 18 maximally parallel to the radial plane (i.e., to the side surface of the piston 32) to permit immediate near full extension of the piston 32 upon exit from the region underneath the combustion chamber 14 before ignition of the fuel mixture in the combustion chamber 14 in order to provide near maximal torque right from the beginning of the power cycle.

Claims

Cancel all claims of record and substitute new claims 6 to 10 as follows:

6. A four-cycle, multi-chamber rotary internal combustion engine, comprising:

a stator having a right-prism-shape exterior body and a hollow core formed by two concentric cylindrical surfaces which fluently transit one into the other via a ramp surface; wherein the ramp surface being generally parallel to a radial plain of the stator;

a rotor having a cylindrical body of the same height as of said stator and an external diameter corresponding to a diameter of a smaller concentric surface forming the hollow core of said stator;

wherein said rotor has at least one radial rectangular groove along the rotor whole height;